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Draft Agenda

Contaminated Site: Investigation and Remediation Process

For Development of Clean up Strategy by the Environmental Response Program

Lac du Flambeau Tribal Natural Resource Department and EPA Region 5

(April 28, 2015)

Site Investigation

Characterize the nature and degree of contamination

Delineate degree and extent (horizontal and vertical, all media)

Identify and Evaluate All Receptors

Conceptual Site Model

Interim Action (can be completed during investigation)

Source Removal and/or Source Soil Removal

Evaluate Complete Site Investigation

Characterize the nature and degree of contamination?

Known

- VOCs Benzene, Ethylbenzene, Toluene, TMBs, Xylenes, 1,1 Dibromoethane, MTBE, n-propylbenzene, others PAHs Naphthalene, others, Cadmium, Lead
- In contact with bedrock
- High concentrations at depth
- Full depth of aquifer (water table - 50-61 feet below grade) contaminated above standards

Unknown

- Plume extends into bedrock?
- Down gradient characterization

Delineate degree and extent (horizontal and vertical, all media)?

Undefined Degree and Extent

Soil- Degree and Extent- suspect source soils remain due to current pre-remedial gw concentrations

Groundwater- Degree and Extent- undefined

Impacts to Lake – Degree and Extent- undefined

Identify and Evaluate All Receptors?

Groundwater- Private Wells- Some identified and sampled

Groundwater Lake Interaction- not evaluated

Ecosystem evaluation- not evaluated- incomplete degree and extent

Conceptual Site Model Makes Sense?

No conceptual site model presented to date makes sense-

Approved Complete Site Investigation



Evaluate Remedial Alternatives

Possible Method: Remedial Alternatives Report



Choose Remedial Alternative



Remedial Action Plan



Implement Remedial Action Plan/ Corrective Actions



Evaluate Remediation



Return Site back to Reuse